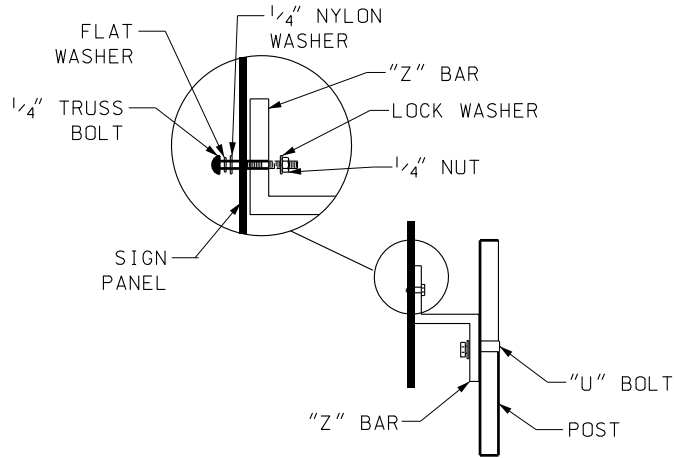


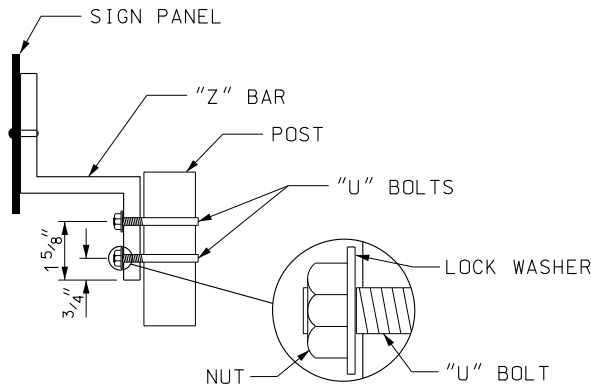
18-DEC-2007 DGN File: L:\Standard Drawings\Imperial\2008\Approved\Signs (SN)\SN13A.dgn

ATTACHMENT TO POST WITH "Z" BAR AND "U" BOLT
FOR SIGN PANEL 36" WIDE



1. MEET THIS INSTALLATION REQUIREMENT WHEN SIGN IS ON A SINGLE POST ON MULTIPLE "Z" BARS.
2. A LONG U-BOLT IS REQUIRED. REFER TO STD DWG SN 13B FOR "U" BOLT REQUIREMENTS.

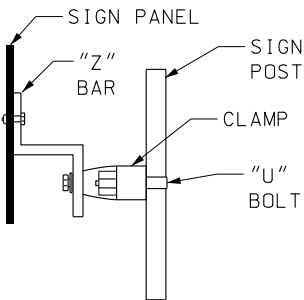
ATTACHMENT TO POST - SINGLE "Z" BAR AND DOUBLE "U" BOLT
FOR SIGN PANELS WITH 24" HEIGHT OR LESS



1. MEET THIS REQUIREMENT WHEN SIGN PANEL HAS ONLY ONE "Z" BAR AND IS ATTACHED TO A SINGLE PANEL.
2. USE TWO LONG "U" BOLTS. REFER TO STD DWG SN 13B FOR "U" BOLT REQUIREMENTS.

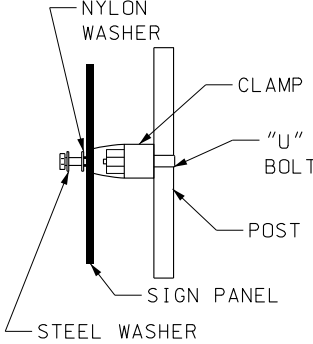
ATTACHMENT TO POST WITH "Z" BAR AND CLAMP
FOR DOUBLE POST APPLICATIONS

1. "Z" BAR AND SADDLE REQUIRED WHEN SIGN IS MOUNTED ON DOUBLE POSTS.



ATTACHMENT TO POST WITH CLAMP
FOR SIGN PANEL 30" WIDE OR LESS

1. USE WITH P3, P4, AND P5 POSTS ON A SINGLE POST. DO NOT USE WITH MULTIPLE POSTS.
2. REFER TO STD DWG SN 13B FOR CLAMP AND HARDWARE REQUIREMENTS.

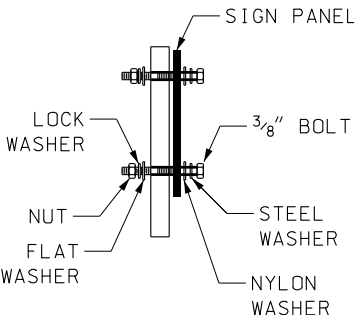


SIGN PANEL TO POST DIRECT CONNECTION
FOR SIGN PANEL 30" WIDE OR LESS WITH PREPUNCHED POST

BOLT & WASHER REQUIREMENTS

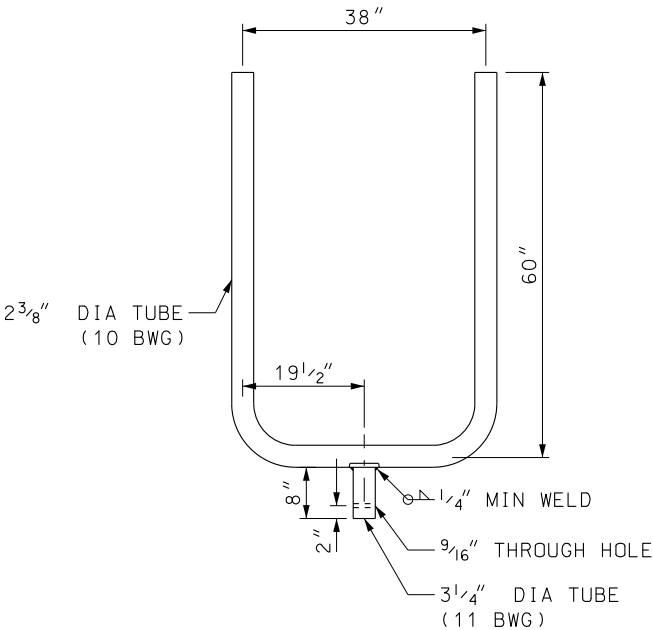
1. USE WITH P1 AND P2 POSTS.
2. HARDWARE:
 - 3/8" x 3" BOLT
 - 3/8" DIA. HEX HEAD BOLT WITH NUT
 - 3/8" DIA. STEEL FLAT WASHER
 - 3/8" DIA. STEEL LOCK WASHER
 - 3/8" DIA. NYLON WASHER
3. ALL STEEL COMPONENTS WILL BE GALVANIZED EXCEPT AS NOTED.

ASSEMBLY

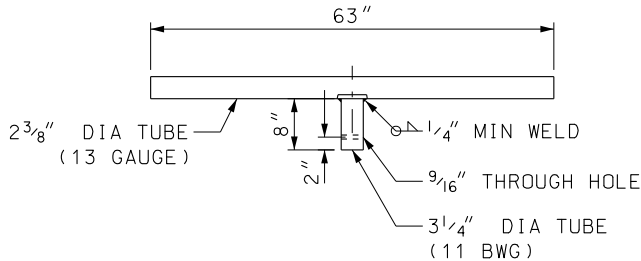


NOTES:

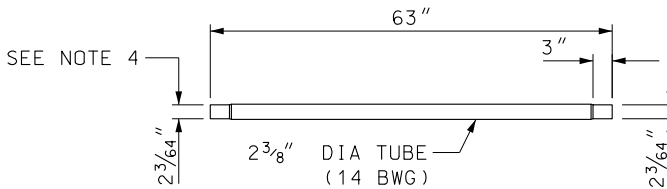
1. GALVANIZE PIPE TO MEET ASTM A 513.
2. COAT WELD JOINTS WITH ZINC RICH PAINT.
3. CUTTING OF "T" OR "U" BRACKET OR EXTENSION TO MEET REQUIRED LENGTH OR HEIGHT IS ACCEPTABLE. COAT CUT ENDS WITH ZINC RICH PAINT.
4. SWAGE ENDS OF EXTENSION TO PROVIDE A SNUG FIT IN A 2 3/8" DIA (10 BWG) TUBING.
5. 2 3/8" DIA 14 BWG TUBING PER ASTM A787 AWG FABRICATED FROM GALVANIZED STEEL SHEET .083" THICK, ASTM A653 SS GRADE G90. REMETALIZE WELD SEAM USING ZINC WIRE PER ASTM B833. TUBE OD WILL BE TREATED WITH CHROMATE CONVERSION SOLUTION AND PROTECTED WITH CLEAR ACRYLIC FILM.
6. BEND 90 DEGREES AND SWAGE 3" ON BOTH ENDS. SWAGE TO BE 1" FROM TANGENT POINT OF BEND RADIUS TO SHOULDER OF SWAGE. SWAGE TO FIT SNUG IN 14GA PIPE.
7. REFER TO SN 10 SERIES AND SN 11 FOR USE REQUIREMENTS OF BRACKETS AND EXTENSIONS.



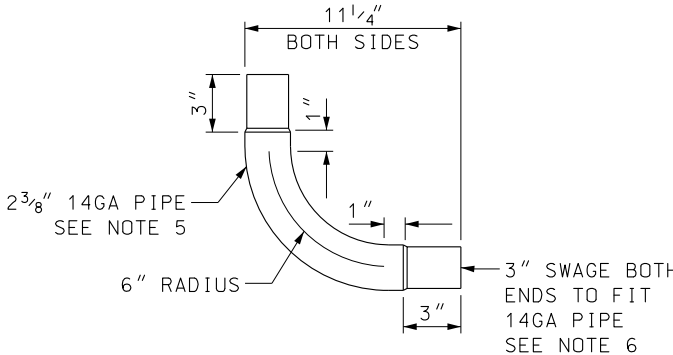
"U" BRACKET
SEE NOTE 7



"T" BRACKET
SEE NOTE 7



EXTENSION
SEE NOTE 7



90 DEGREE POST EXTENSION
SEE NOTE 7

UTAH DEPARTMENT OF TRANSPORTATION

STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

RECOMMENDED FOR APPROVAL
SALE LARSEN
CHAIRMAN STANDARDS COMMITTEE
APPROVED

JAN.01.2008
DATE

JAN.01.2008
DATE

DEPUTY DIRECTOR

TUBULAR STEEL
SIGN MOUNTING
REQUIREMENTS

STD DWG
SN 13A

STANDARD DRAWING TITLE

REVISIONS

REMARKS

NO. DATE APPR.